

SDMS Document ID



2118912

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FILE NO.

1540002

FILE NO.

P2-4

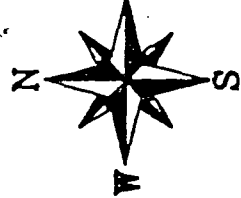
**APEX SOILS CLEANUP**

**Attachment C**

**Information Request #1**

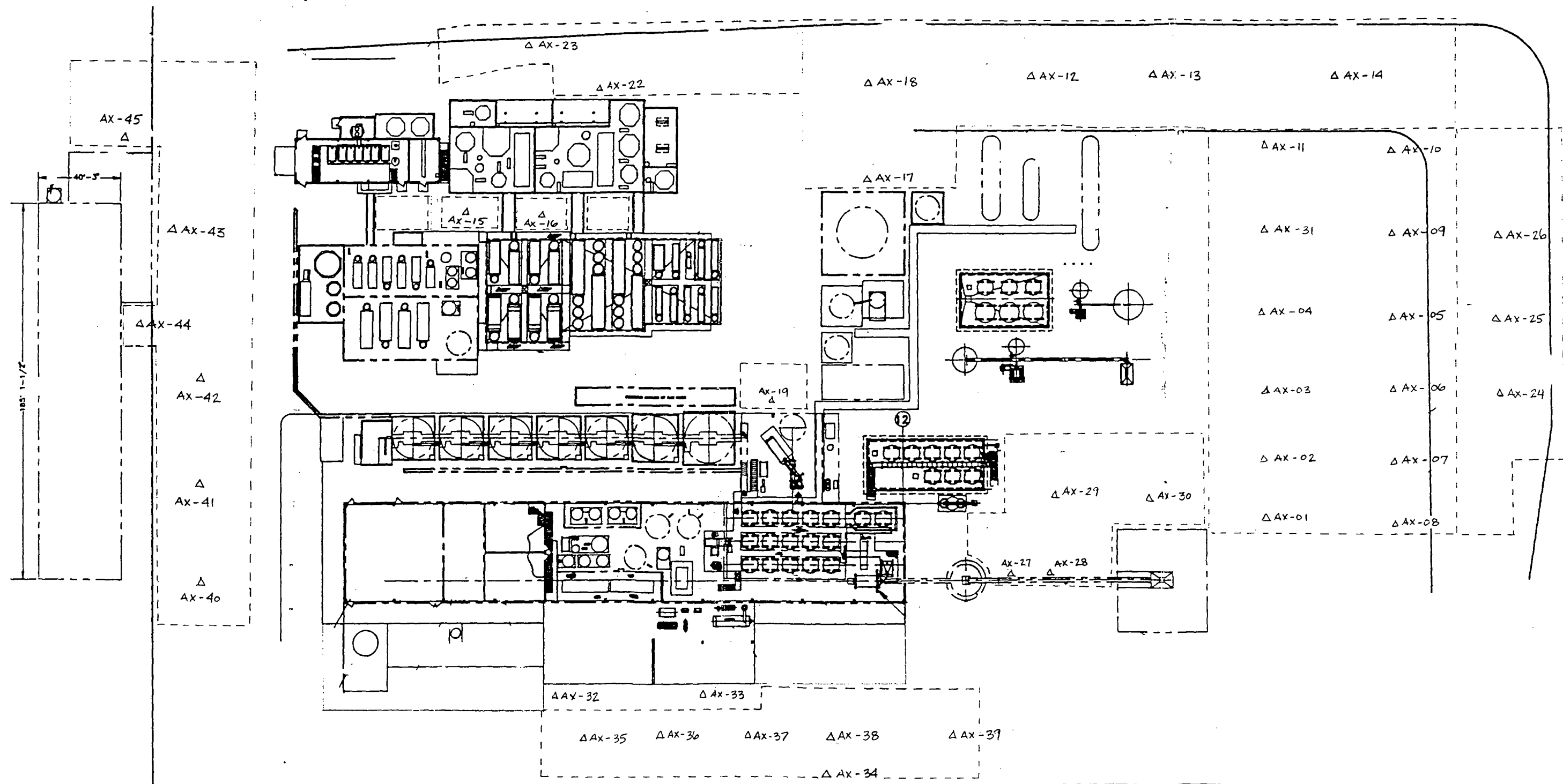
TABLE 1 – SUMMARY OF METALS ANALYSIS – APEX SOIL CLEANUP

Sample ID	Location	<u>American West Analytical</u>	
		As ppm	Pb ppm
AX-01	Area 1	28	83
AX-02	Area 1	24	62
AX-03	Area 1	5.3	17
AX-04	Area 1	5.1	21
AX-05	Area 1	15	38
AX-06	Area 1	9.9	37
AX-07	Area 1	24	69
AX-08	Area 1	1.7	8.9
AX-09	Area 1	4.4	11
AX-10	Area 1	3.4	16
AX-11	Area 1	4.7	28
AX-12	Area 2	2.6	7.6
AX-13	Area 2	4.2	14
AX-14	Area 2	15	51
AX-15	Area 3	26	63
AX-16	Area 3	2.4	9.2
AX-17	Area 2	3.9	13
AX-18	Area 2	20	42
AX-19	Area 4	4.1	16
AX-20	Pond 2a	3.9	10
AX-21	Pond 2a	7.2	34
AX-22	Area 5	1.1	<3
AX-23	Area 5	18	52
AX-24	Area 6	8.3	24
AX-25	Area 6	3.8	11
AX-26	Area 6	14	53
AX-27	Area 7	1.9	9.9
AX-28	Area 7	2.1	9.6
AX-29	Area 7	7.7	24
AX-30	Area 7	9	34
AX-31	Area 1	2.2	14
AX-35	Area 8	17	25
AX-36	Area 8	22	17
AX-37	Area 8	3.9	9
AX-38	Area 8	3.6	7.7
AX-39	Area 8	49	78
AX-40	Area 9	4.1	12
AX-41	Area 9	6.8	16
AX-42	Area 9	33	38
AX-43	Area 9	10	20
AX-44	Area 9	7.4	11
AX-45	Area 9	2.7	9.1



## PLATE 2

Sample Locations for Metals Analysis (AX-)  
Hecla Mining Co. - Apex Plant





AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Hecla Mining Company  
Date Sampled: July 13, 1995  
Lab Sample ID.: 23165-01  
Field Sample ID: Apex/AX-01

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

TOTAL METALS		Method Used:	Detection Limit: mg/kg	Amount Detected: mg/kg
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	28.
	Lead	6010	3.0	83.

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1 of 1



AMERICAN  
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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 21, 1995  
Lab Sample ID.: 23276-01  
Field Sample ID: Apex/AX-02/1

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

463 West 3600 South  
Salt Lake City, Utah  
84115

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	24.
Lead	6010	3.0	62.

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1 of 1



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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 21, 1995  
Lab Sample ID.: 23276-02  
Field Sample ID: Apex/AX-03/2

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	5.3
	Lead	6010	3.0	17.

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: August 23, 1995  
Lab Sample ID.: 23572-01  
Field Sample ID: Apex/AX-04/1

Contact: Penny Bassett  
Date Received: August 28, 1995  
Received By: Elona Hayward  
Set Description: Five Soil Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit:</u></b> mg/kg	<b><u>Amount Detected:</u></b> mg/kg
<b>TOTAL METALS</b>			
Arsenic	7060	0.5	5.1
Lead	6010	3.0	21.

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1 of 1



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Client: Hecla Mining Company  
Date Sampled: July 13, 1995  
Lab Sample ID.: 23165-05  
Field Sample ID: Apex/ AX-05

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	15.
	Lead	6010	3.0	38.

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1 of 1





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Client: Hecla Mining Company  
Date Sampled: July 13, 1995  
Lab Sample ID.: 23165-06  
Field Sample ID: Apex/ AX-06

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	9.9
	Lead	6010	3.0	37.

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1 of 1



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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 21, 1995  
Lab Sample ID.: 23276-03  
Field Sample ID: Apex/AX-07/2

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

TOTAL METALS	Method	Detection	Amount
	<u>Used:</u>	<u>Limit:</u> mg/kg	<u>Detected:</u> mg/kg
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5
	Lead	6010	3.0

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Co.  
Date Sampled: September 18, 1995  
Lab Sample ID.: 23782-03  
Field Sample ID: APEX/AX-08/3

Contact: Penny Bassett  
Date Received: September 20, 1995  
Received By: Elona Hayward  
Set Description: Four Solid Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit:</u></b> mg/kg	<b><u>Amount Detected:</u></b> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	1.7
Lead	6010	3.0	8.9

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1 of 1

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 25, 1995  
Lab Sample ID.: 23845-02  
Field Sample ID: APEX/AX-09/1

Contact: Penny Bassett  
Date Received: September 26, 1995  
Received By: Elona Hayward  
Set Description: Two Solid Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	4.4
Lead	6010	3.0	11.

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1 of 1



AMERICAN  
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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 19, 1995  
Lab Sample ID.: 23276-05  
Field Sample ID: Apex/AX-10/1

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
463 West 3600 South Salt Lake City, Utah 84115	TOTAL METALS			
	Arsenic	7060	0.5	3.4
	Lead	6010	3.0	16.

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1 of 1

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: August 24, 1995  
Lab Sample ID.: 23572-02  
Field Sample ID: Apex/AX-11/2

Contact: Penny Bassett  
Date Received: August 28, 1995  
Received By: Elona Hayward  
Set Description: Five Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	4.7
Lead	6010	3.0	28.

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1 of 1



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Client: Hecla Mining Company  
Date Sampled: July 14, 1995  
Lab Sample ID.: 23165-12  
Field Sample ID: Apex/ AX-12

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	2.6
	Lead	6010	3.0	7.6

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1 of 1



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Client: Hecla Mining Company  
Date Sampled: July 14, 1995  
Lab Sample ID.: 23165-13  
Field Sample ID: Apex/ AX-13

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit: mg/kg</u>	<u>Amount Detected: mg/kg</u>
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	4.2
	Lead	6010	3.0	14.

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1 of 1





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Client: Hecla Mining Company  
Date Sampled: July 14, 1995  
Lab Sample ID.: 23165-14  
Field Sample ID: Apex/ AX-14

Contact: Penny Bassett  
Date Received: July 17, 1995  
Received By: Erica Fulcher  
Set Description: Fourteen Soil Samples

## INORGANIC ANALYSIS REPORT

### Analytical Results

		<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS				
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	15.
	Lead	6010	3.0	51.

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1 of 1



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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 19, 1995  
Lab Sample ID.: 23276-06  
Field Sample ID: Apex/AX-15

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

463 West 3600 South Salt Lake City, Utah 84115	TOTAL METALS	Method Used:	Detection Limit: mg/kg	Amount Detected: mg/kg
	Arsenic	7060	0.5	26.
	Lead	6010	3.0	63.

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1 of 1



AMERICAN  
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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 19, 1995  
Lab Sample ID.: 23276-07  
Field Sample ID: Apex/AX-16

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

463 West 3600 South Salt Lake City, Utah 84115	TOTAL METALS	Method	Detection	Amount
		Used:	Limit:	Detected:
			mg/kg	mg/kg
	Arsenic	7060	0.5	2.4
	Lead	6010	3.0	9.2

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1 of 1



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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 20, 1995  
Lab Sample ID.: 23276-08  
Field Sample ID: Apex/AX-17

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

463 West 3600 South Salt Lake City, Utah 84115	<u>Analytical Results</u>			
	TOTAL METALS	Method Used:	Detection Limit: mg/kg	Amount Detected: mg/kg
	Arsenic	7060	0.5	3.9
	Lead	6010	3.0	13.

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1 of 1



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LABORATORIES

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: July 20, 1995  
Lab Sample ID.: 23276-09  
Field Sample ID: Apex/AX-18

Contact: Penny Bassett  
Date Received: July 27, 1995  
Received By: Laurie Hastings  
Set Description: Ten Soil Samples

### Analytical Results

TOTAL METALS	Method <u>Used:</u>	Detection <u>Limit:</u> mg/kg	Amount <u>Detected:</u> mg/kg
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5
	Lead	6010	3.0

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1 of 1

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: August 21, 1995  
Lab Sample ID.: 23572-03  
Field Sample ID: Apex/AX-19/1

Contact: Penny Bassett  
Date Received: August 28, 1995  
Received By: Elona Hayward  
Set Description: Five Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	4.1
Lead	6010	3.0	16.

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: July 27, 1995  
Lab Sample ID.: 23516-01  
Field Sample ID.: APEX/AX-20

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit: mg/kg</u></b>	<b><u>Amount Detected: mg/kg</u></b>
TOTAL METALS			
Arsenic	7060	0.5	3.9
Lead	6010	3.0	10.

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: July 27, 1995  
Lab Sample ID.: 23516-02  
Field Sample ID.: APEX/AX-21

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit:</u></b> mg/kg	<b><u>Amount Detected:</u></b> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	7.2
Lead	6010	3.0	34.

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1 of 1



**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: August 9, 1995  
Lab Sample ID.: 23516-05  
Field Sample ID.: APEX/AX-24

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit:</u></b> mg/kg	<b><u>Amount Detected:</u></b> mg/kg
<b>TOTAL METALS</b>			
Arsenic	7060	0.5	8.3
Lead	6010	3.0	21.

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: August 9, 1995  
Lab Sample ID.: 23516-06  
Field Sample ID.: APEX/AX-25

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b><u>Method Used:</u></b>	<b><u>Detection Limit:</u></b> mg/kg	<b><u>Amount Detected:</u></b> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	3.8
Lead	6010	3.0	11.

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1 of 1

**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: August 9, 1995  
Lab Sample ID.: 23516-07  
Field Sample ID.: APEX/AX-26

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b>Method Used:</b>	<b>Detection Limit: mg/kg</b>	<b>Amount Detected: mg/kg</b>
<b>TOTAL METALS</b>			
Arsenic	7060	0.5	14.
Lead	6010	3.0	53.

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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: August 18, 1995  
Lab Sample ID.: 23516-08  
Field Sample ID.: APEX/AX-27

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	1.9
Lead	6010	3.0	9.9

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**INORGANIC ANALYSIS REPORT**

Client: Hecla Mining Company  
Date Sampled: August 18, 1995  
Lab Sample ID.: 23516-09  
Field Sample ID.: APEX/AX-28

Contact: Penny Bassett  
Date Received: August 22, 1995  
Received By: Elona Hayward  
Set Description: Eleven Soil Samples

**Analytical Results**

	<b>Method Used:</b>	<b>Detection Limit: mg/kg</b>	<b>Amount Detected: mg/kg</b>
<b>TOTAL METALS</b>			
Arsenic	7060	0.5	2.1
Lead	6010	3.0	9.6

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## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Lab Sample ID.: 25910-10  
Field Sample ID.: APEX/AX-29

Contact: Penny Bassett  
Received by: L. Ona Hayward  
Set Description: Eleven Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	7.7
Lead	6010	3.0	24.

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Report Date 9/6/95

1 of 1

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: August 23, 1995  
Lab Sample ID.: 23572-04  
Field Sample ID: Apex/AX-30/1

Contact: Penny Bassett  
Date Received: August 28, 1995  
Received By: Elona Hayward  
Set Description: Five Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	9.0
Lead	6010	3.0	34.

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Report Date 9/6/95

1 of 1

## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Company  
Date Sampled: August 23, 1995  
Lab Sample ID.: 23572-05  
Field Sample ID: Apex/AX-31

Contact: Penny Bassett  
Date Received: August 28, 1995  
Received By: Elona Hayward  
Set Description: Five Soil Samples

### Analytical Results

	<u>Method Used:</u>	<u>Detection Limit:</u> mg/kg	<u>Amount Detected:</u> mg/kg
TOTAL METALS			
Arsenic	7060	0.5	2.2
Lead	6010	3.0	14.



**Table 2**  
**Summary of Hydrocarbon Analysis**  
**Apex Plant Soils Cleanup**

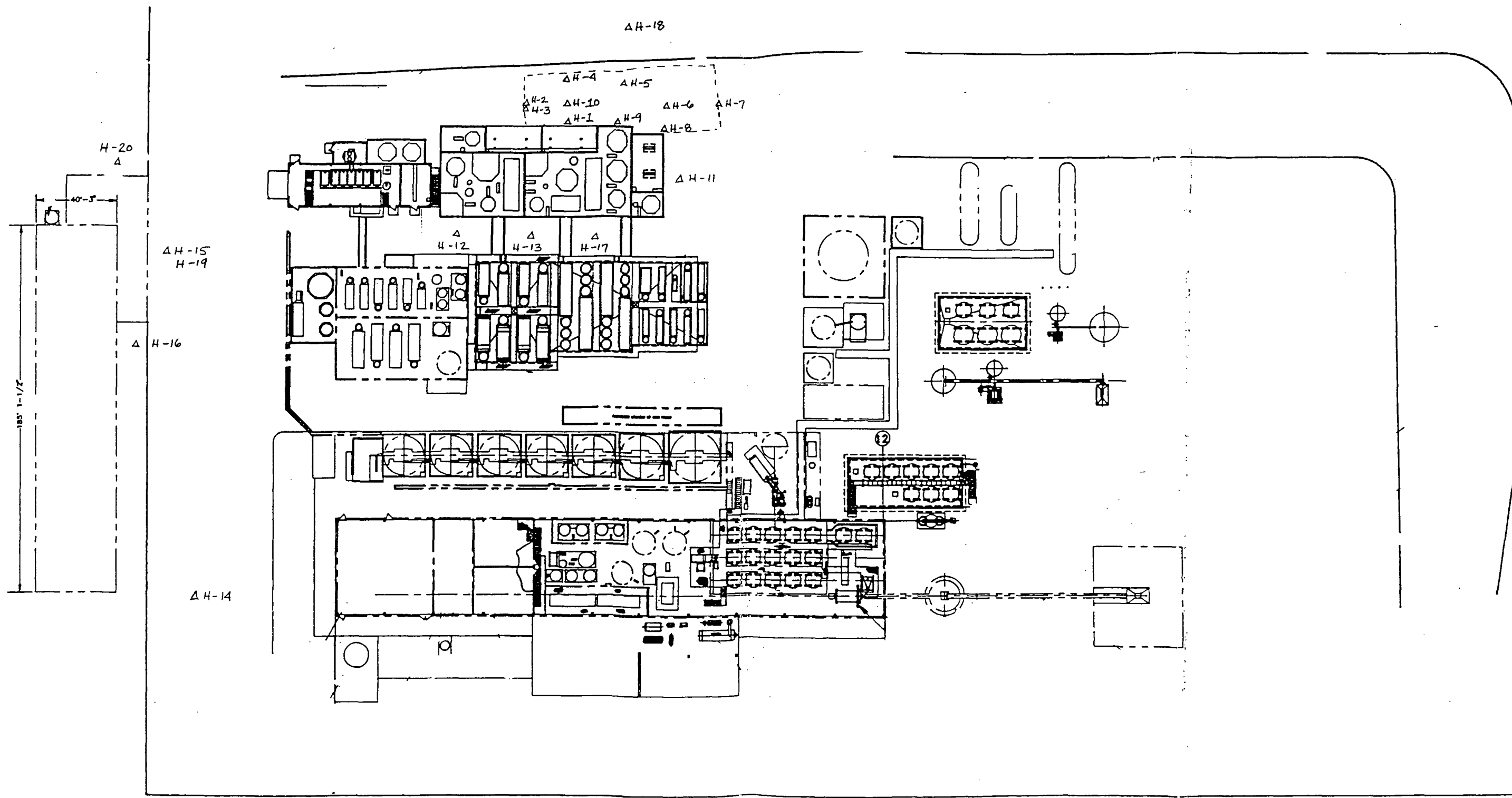
Sample ID	Location	Depth to Sample	TPH (method 8015)			TRH (method 814.1)
			Gasoline	Diesel	TPH	
H-1	Area 5	3'	<10	<10	<10	
H-2	Area 5	3'	<10	<10	<10	
H-3	Area 5	6'	<10	<10	<10	
H-4	Area 5	3'	<10	<10	<10	
H-5	Area 5	3'	<10	<10	<10	
H-6	Area 5	7'	<10	<10	<10	
H-7	Area 5	6'	<10	<10	<10	
H-8	Area 5	3'	<10	<10	<10	
H-9	Area 5	3'	<10	<10	<10	
H-10	Area 5	7'	<10	<10	<10	
H-11	Area 5	2'	<10	<10	<10	
H-12	Area 3	2'	<10	<10	<10	
H-13	Area 3	2'	<10	<10	<10	
H-14	Area 9	1.5'				<10
H-15	Area 9	1.5'				166
H-16	Area 9	1.5'				22.9
H-17	Area 3	2'	<10	<10	<10	
H-18	Area 5	2'	<10	<10	<10	
H-19	Area 9	2.5'				<10
H-20	Area 9	2.5'				<10

NOTE: Sample H-19 is a repeat of sample H-15 after more cleanup was done

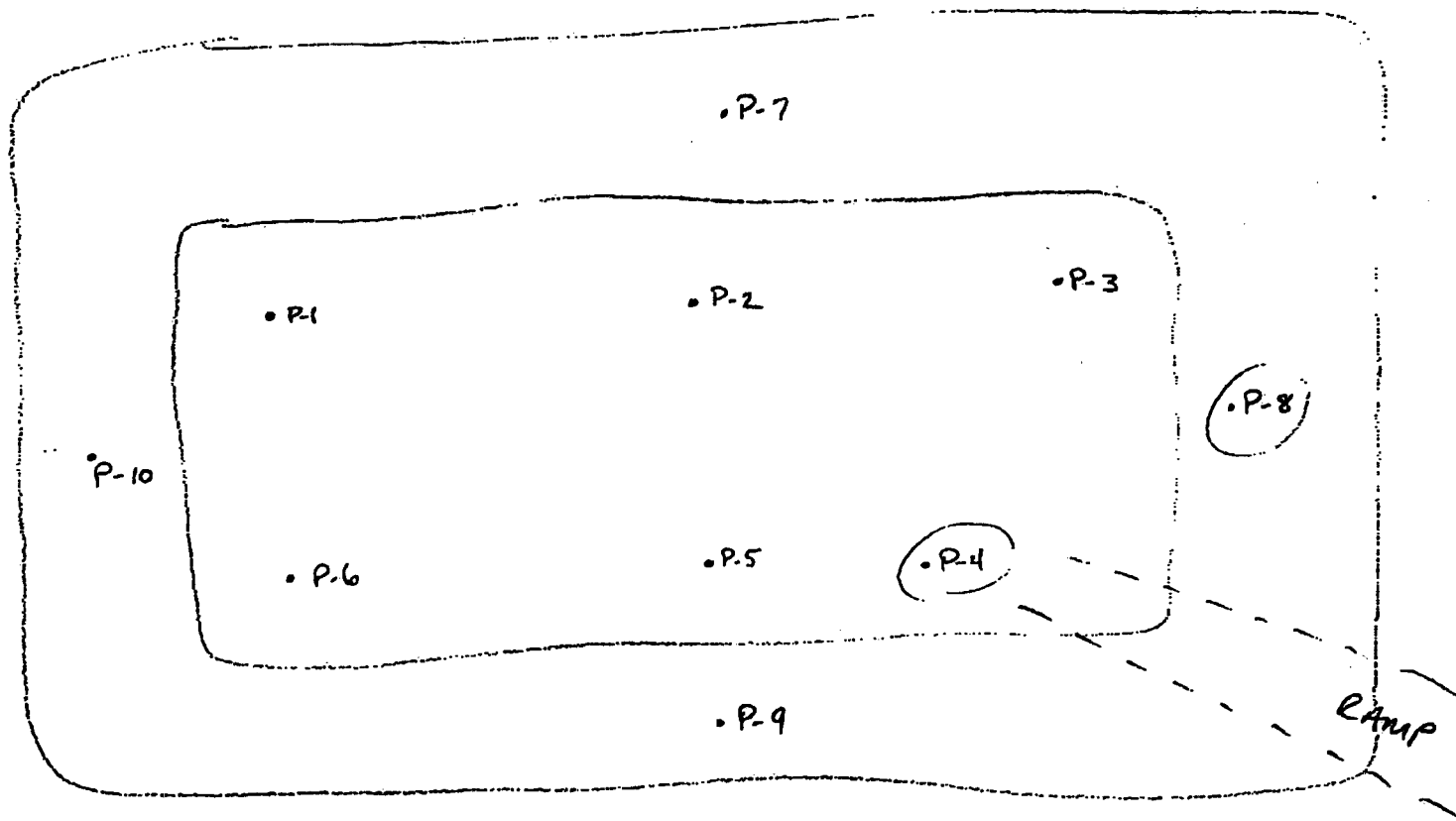


# PLATE 3

Sample Locations for Hydrocarbon Analysis (H-)  
Hecla Mining Co. - Apex Plant



# Pond Lab sample locations





## INORGANIC ANALYSIS REPORT

AMERICAN WEST  
ANALYTICAL LABORATORIES  
Client: Hecla Mining Co.  
Date Sampled: May 28, 1996  
Field Sample ID: P-1  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-1

### Analytical Results

Units = mg/kg

	<u>TOTAL METALS</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
463 West 3600 South	Arsenic	7060	0.5	39.
Salt Lake City, Utah	Lead	6010	3.0	60.
84115				

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN Date Sampled: May 28, 1996  
WEST  
ANALYTICAL Field Sample ID:  
LABORATORIES P-2  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-2

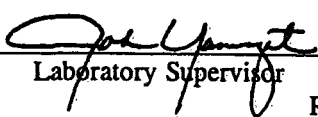
### Analytical Results

Units = mg/kg

	<u>TOTAL METALS</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
463 West 3600 South	Arsenic	7060	0.5	7.
Salt Lake City, Utah	Lead	6010	3.0	27.
84115				

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

AMERICAN WEST  
ANALYTICAL LABORATORIES  
Client: Hecla Mining Co.  
Date Sampled: May 28, 1996  
Field Sample ID:  
P-3  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-3

### Analytical Results

Units = mg/kg

	<u>TOTAL METALS</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
463 West 3600 South	Arsenic	7060	0.5	14.
Salt Lake City, Utah	Lead	6010	3.0	28.
84115				

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

*Joe Yang*  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN Date Sampled: May 28, 1996  
WEST  
ANALYTICAL Field Sample ID:  
LABORATORIES <sup>P-4</sup>  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-4

### Analytical Results

Units = mg/kg

	<u>TOTAL METALS</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
463 West 3600 South	Arsenic	7060	0.5	150.
Salt Lake City, Utah	Lead	6010	3.0	100.
84115				

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN Date Sampled: May 28, 1996  
WEST  
ANALYTICAL Field Sample ID:  
LABORATORIES<sup>P-5</sup>  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-5

### Analytical Results

Units = mg/kg

	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
<b>TOTAL METALS</b>			
463 West 3600 South Arsenic	7060	0.5	37.
Salt Lake City, Utah 84115 Lead	6010	3.0	59.

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

Laboratory Supervisor

Report Date: May 31, 1996

1 of 1





## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN Date Sampled: May 28, 1996  
WEST  
ANALYTICAL Field Sample ID:  
LABORATORIES<sup>P-6</sup>  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-6


### Analytical Results

Units = mg/kg

	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
<b>TOTAL METALS</b>			
463 West 3600 South Arsenic	7060	0.5	15.
Salt Lake City, Utah 84115 Lead	6010	3.0	35.

(801) 263-8686  
Fax (801) 263-8687

Released By:

  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN Date Sampled: May 28, 1996  
WEST  
ANALYTICAL Field Sample ID:  
LABORATORIES P-7  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

Lab Sample ID:  
L26029-7

### Analytical Results

Units = mg/kg

	<u>TOTAL METALS</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
463 West 3600 South	Arsenic	7060	0.5	5.4
Salt Lake City, Utah				
84115	Lead	6010	3.0	23.

(801) 263-8686  
Fax (801) 263-8687

Released By: John Young  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Hecla Mining Co.  
Date Sampled: May 28, 1996

Contact: Penny Bassett  
Date Received: May 29, 1996

Field Sample ID:  
P-8  
APEX

Lab Sample ID:  
L26029-8

### Analytical Results

Units = mg/kg

463 West 3600 South Salt Lake City, Utah 84115	TOTAL METALS	Method	Reporting	Amount
		Used:	Limit:	Detected:
	Arsenic	7060	0.5	200.
	Lead	6010	3.0	150.

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
AMERICAN WEST ANALYTICAL LABORATORIES  
Date Sampled: May 28, 1996  
Field Sample ID: P-9  
APEX

Contact: Penny Bassett  
Date Received: May 29, 1996

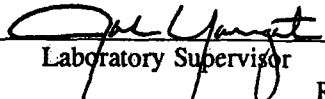
Lab Sample ID: L26029-9

### Analytical Results

Units = mg/kg

	<b>TOTAL METALS</b>	<b>Method Used:</b>	<b>Reporting Limit:</b>	<b>Amount Detected:</b>
463 West 3600 South	Arsenic	7060	0.5	10.
Salt Lake City, Utah	Lead	6010	3.0	30.
84115				

(801) 263-8686  
Fax (801) 263-8687

Released By:   
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1



AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Hecla Mining Co.  
Date Sampled: May 28, 1996

Contact: Penny Bassett  
Date Received: May 29, 1996

Field Sample ID:  
P-10  
APEX

Lab Sample ID:  
L26029-10

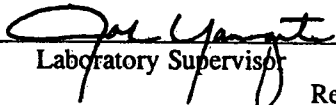
### Analytical Results

Units = mg/kg

TOTAL METALS		Method <u>Used:</u>	Reporting <u>Limit:</u>	Amount <u>Detected:</u>
463 West 3600 South Salt Lake City, Utah 84115	Arsenic	7060	0.5	2.
	Lead	6010	3.0	17.

(801) 263-8686  
Fax (801) 263-8687

Released By: \_\_\_\_\_

  
Laboratory Supervisor

Report Date: May 31, 1996

1 of 1

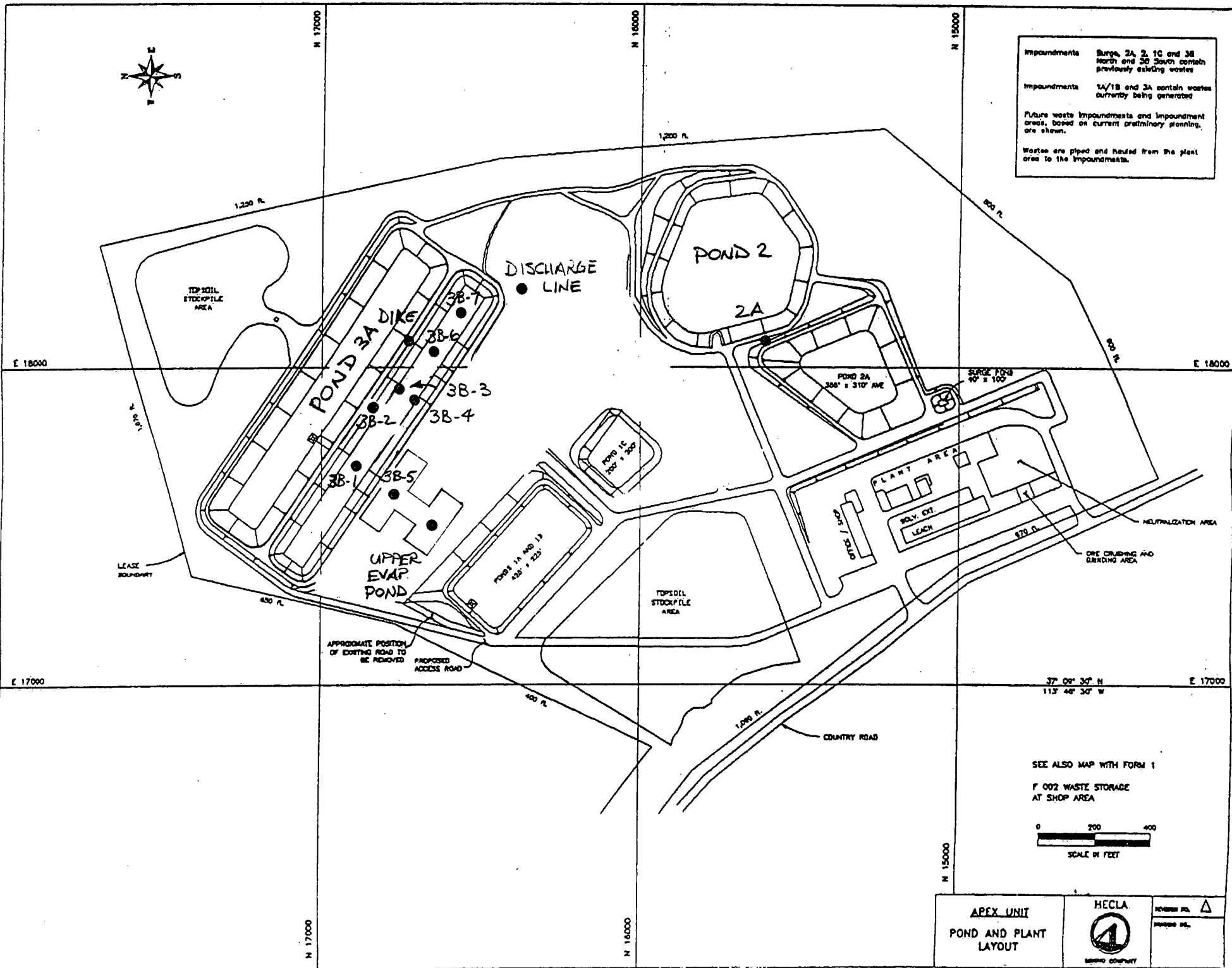


Impoundments Surge, 2A, 2, 1C and 3B North and 3B South contain previously existing wastes

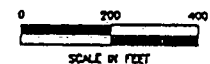
Impoundments 1A/1B and 3A contain wastes currently being generated



Future waste impoundments and impoundment areas, based on current preliminary planning, are shown.

Wastes are piped and hauled from the plant area to the impoundments.



SEE ALSO MAP WITH FORM 1  
F 002 WASTE STORAGE  
AT SHOP AREA



<b>APEX UNIT</b> POND AND PLANT LAYOUT	<b>HECLA</b>  MINING COMPANY	REVISION NO. 
		PROJECT NO.



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-1

Lab Sample ID:  
L30769-1

### **Analytical Results**

Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	09/22/97	7060	0.5	4.3
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diane Baker

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-2

Lab Sample ID:  
L30769-2

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	09/22/97	7060	0.5	5.2
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By:

  
Laboratory Supervisor

Report Date: September 24, 1997

1 of 1





## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-3

Lab Sample ID:  
L30769-3

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	09/22/97	7060	0.5	1.8
Lead	09/22/97	6010	3.0	< 3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Dean Dale

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-4

Lab Sample ID:  
L30769-4

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

### Analytical Results

Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	09/22/97	7060	0.5	5.3
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diane Baker  
Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Client: Hecla Mining Co.  
Date Sampled: September 18, 1997

Contact: Alan Wilson  
Date Received: September 19, 1997

Field Sample ID:  
APEX  
3B-5

Lab Sample ID:  
L30769-5

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	09/22/97	7060	0.5	19.
Lead	09/22/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Alan Wilson

Laboratory Supervisor

Report Date: September 24, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-X 6

Lab Sample ID:  
L30928-1

### **Analytical Results**

Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	10/03/97	7060	0.5	2.7
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diana B. Clark

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-27

Lab Sample ID:  
L30928-2

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/03/97	7060	0.5	1.7
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Diana Balg  
Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
4-UPPER EVAP POND

Lab Sample ID:  
L30928-4

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/03/97	7060	0.5	1.9
Lead	10/03/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Alan Baker

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: September 29, 1997

Contact: Alan Wilson  
Date Received: October 01, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
3B-DIKE-#3

Lab Sample ID:  
L30928-3

### Analytical Results

Units = mg/kg

<b>TOTAL METALS</b>	<b><u>Analysis Date:</u></b>	<b><u>Method Used:</u></b>	<b><u>Reporting Limit:</u></b>	<b><u>Amount Detected:</u></b>
Arsenic	10/03/97	7060	0.5	24.
Lead	10/03/97	6010	3.0	25.

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687

Released By: Dean B. G.

Laboratory Supervisor

Report Date: October 03, 1997

1 of 1



## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: October 10, 1997

Contact: Alan Wilson  
Date Received: October 13, 1997

Field Sample ID:  
APEX  
DISCH 2

Lab Sample ID:  
L31064-1

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/14/97	7060	0.5	2.6
Lead	10/14/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686

Toll Free (888) 263-8686

Fax (801) 263-8687

Released By: \_\_\_\_\_

*Don Beck*  
Laboratory Supervisor

Report Date: October 15, 1997

1 of 1





## INORGANIC ANALYSIS REPORT

Client: Hecla Mining Co.  
Date Sampled: October 17, 1997

Contact: Alan Wilson  
Date Received: October 20, 1997

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Field Sample ID:  
APEX  
2A-2

Lab Sample ID:  
L31134-1

### Analytical Results

Units = mg/kg

<u>TOTAL METALS</u>	<u>Analysis Date:</u>	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	10/21/97	7060	0.5	3.2
Lead	10/21/97	6010	3.0	<3.0

463 West 3600 South  
Salt Lake City, Utah  
84115

(801) 263-8686

oll Free (888) 263-8686

Fax (801) 263-8687

Released By: Diane Scler

Laboratory Supervisor

Report Date: October 22, 1997

1 of 1